

## Differential pressure gauge Eco Model A2G-05

WIKA data sheet PM 07.42



### Applications

- Differential pressure monitoring for filters
- Pressure monitoring for ventilators
- Overpressure monitoring for clean rooms and also under- and overpressure monitoring for laboratories and operating rooms

### Special features

- Very small insertion depth
- Simple and fast mounting via threaded bezel
- Separated construction of measuring chamber and display area
- Integrated sealing element for direct mounting in a ventilation duct
- Individual design of dial and scale possible



Differential pressure gauge Eco, without built-in module, model A2G-05

### Description

The model A2G-05 Eco differential pressure gauge is used for monitoring the differential pressure in ventilation and air-conditioning applications. The measuring ranges cover from 0 ... 100 Pa to 0 ... 6,000 Pa. Plus/minus ranges can be fulfilled from -50 ... +50 Pa to -1,500 ... +1,500 Pa.

The separated construction of the measuring chamber and display area ensures that impurities from the process air do not settle on the back of the window.

The differential pressure gauge is available in IP54 and IP65 ingress protection as well as two different mounting versions.

#### Mounting without threaded bezel

Due to its small insertion depth, the model A2G-05 Eco differential pressure gauge in this version is ideally suited for recessed installation in doors, case panels and walls.

#### Mounting with threaded bezel

Depending on the alignment of the threaded bezel the device can be mounted with the same components on wall thicknesses of 2 ... 10 mm or 29 ... 50 mm. This mounting version is notable for its fast and tool-free installation.

## Specifications

Differential pressure gauge Eco, model A2G-05	
<b>Version</b>	<ul style="list-style-type: none"> <li>■ Standard version</li> <li>■ Silicone-free version</li> </ul>
<b>Nominal size in mm</b>	110
<b>Measuring range</b>	<ul style="list-style-type: none"> <li>■ 0 ... 100 Pa to 0 ... 6,000 Pa</li> <li>■ -50 ... +50 Pa to -1,500 ... +1,500 Pa</li> </ul> Other plus/minus ranges on request
<b>Unit</b>	<ul style="list-style-type: none"> <li>■ Pa</li> <li>■ kPa</li> <li>■ inWC</li> <li>■ mmWC</li> <li>■ mbar</li> </ul>
<b>Scale</b>	<ul style="list-style-type: none"> <li>■ Single scale</li> <li>■ Dual scale</li> </ul>
<b>Accuracy class</b>	
Span $\geq$ 250 Pa	3.0
Span 101 ... 249 Pa	5.0
Span $\leq$ 100 Pa	10.0
<b>Process connection</b>	Fixed connection in angular form for hoses with inner diameter 4 ... 6 mm
<b>Movement</b>	Contact-free transmission (SWISS MOVEMENT)
<b>Materials</b>	
Case components	Plastic, glass-fibre reinforced
Separating diaphragm	<ul style="list-style-type: none"> <li>■ Silicone</li> <li>■ EPDM (with silicone-free version)</li> </ul>
Window	Polycarbonate (UV stabilised)
Dial	Aluminium
Pointer	Plastic, black
<b>Mark pointer</b>	<ul style="list-style-type: none"> <li>■ Without</li> <li>■ Plastic, red</li> </ul>
<b>Medium</b>	<ul style="list-style-type: none"> <li>■ Air</li> <li>■ Non-flammable and non-aggressive gases</li> </ul>
<b>Permissible temperatures</b>	
Medium	-20 ... +50 °C [-4 ... +122 °F]
Ambient	-30 ... +80 °C [-22 ... +176 °F]
<b>Max. working pressure (static pressure)</b>	20 kPa
<b>Ingress protection per IEC/EN 60529</b>	<ul style="list-style-type: none"> <li>■ IP54</li> <li>■ IP65</li> </ul>
<b>Weight (pressure measuring system)</b>	240 g

## Approvals (option)

Logo	Description	Country
	<b>GOST</b> Metrology, measurement technology	Russia
	<b>UkrSEPRO</b> Metrology, measurement technology	Ukraine

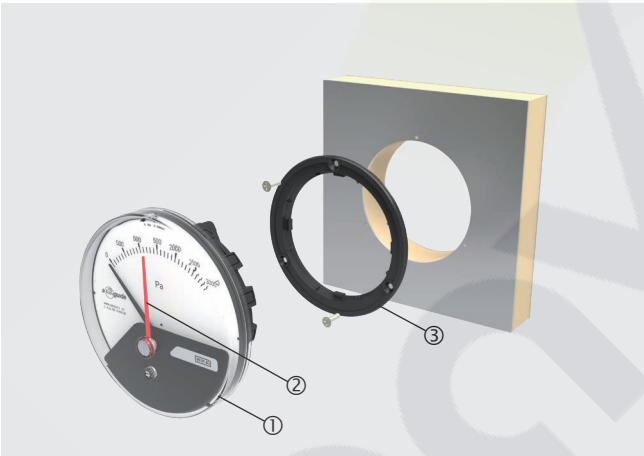
## Certificates (option)

- Measurement report per EN 837
- 2.2 test report per EN 10204
- 3.1 inspection certificate per EN 10204

Approvals and certificates, see website

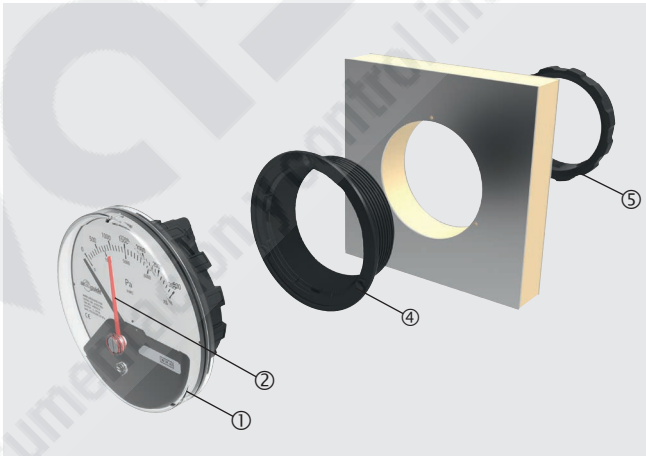
## Mounting versions

With mounting ring <sup>1)</sup>



- 1) Insertion depth 42 mm  
 2) For wall thicknesses 2 ... 10 mm and 29 ... 50 mm

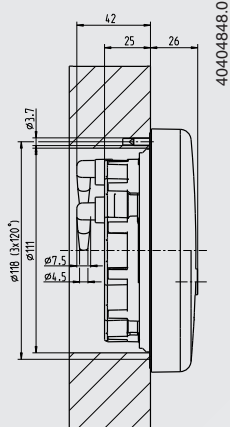
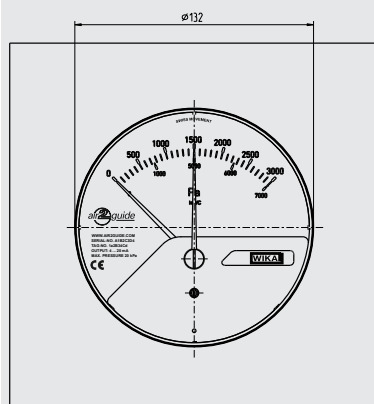
With threaded bezel <sup>2)</sup>



- Legend:
- ① Pressure measuring system
  - ② Red mark pointer
  - ③ Mounting ring
  - ④ Built-in case
  - ⑤ Threaded bezel

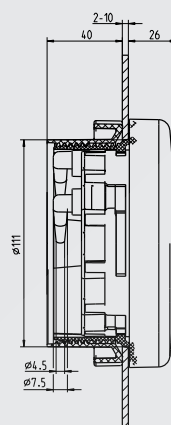
## Dimensions in mm

With mounting ring, back mount

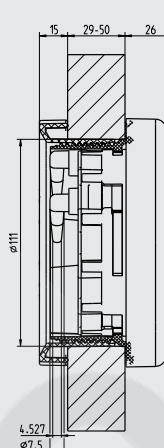


With threaded bezel, back mount

Variant 1



Variant 2







### Legend

Variant 1: Threaded bezel orientation for wall thicknesses 2 ... 10 mm

Variant 2: Threaded bezel orientation for wall thicknesses 29 ... 50 mm

## Accessories

Description	Order number
 <b>Static duct probes with combi hose connection for pressure measuring hoses Ø 4 ... 7 mm</b> Insertion length 100 mm Insertion length 150 mm Insertion length 200 mm	 40232981 40232999 40233006
 <b>Measuring hoses</b> PVC hose, inner diameter 4 mm, roll at 25 m PVC hose, inner diameter 6 mm, roll at 25 m Silicone hose, inner diameter 4 mm, roll at 25 m Silicone hose, inner diameter 6 mm, roll at 25 m	 40217841 40217850 40208940 40208958
 <b>Duct connectors for measuring hoses Ø 4 ... 6 mm</b>	40217507
 <b>Weather protection</b>	40241564

## Ordering information

Model / Version / Measuring range / Unit / Scale / Ingress protection / Mark pointer / Mounting version / Accessories / Approvals / Certificates / Options

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